

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1450 Alexandria, Virginia 22313-1450 www.unpto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,026	12/21/2005	Rommer Stefan	P17753-US1	1372
27045 ERICSSON II	7590 05/22/200 NC	EXAMINER		
6300 LEGACY DRIVE M/S EVR I-C-11 PLANO. TX 75024			CHAMBERS, TANGELA T	
			ART UNIT	PAPER NUMBER
1221.0, 111	2021		2617	
			MAIL DATE	DELIVERY MODE
			05/22/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/595,026	STEFAN, ROMMER		
Examiner	Art Unit		
TANGELA T. CHAMBERS	2617		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

Status		

WHICHE - Extensions after SIX (i - If NO perio - Failure to i Any reply i	TENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, VER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. of time may be available under the provision of 37 CF1 1/36(a). In or event, however, may a reply be timely filed of 1/36 (a) MONTH'S from the making date of this communication. However, may a reply be timely filed of the communication. Or may be provided down, the manner studency price will apply and will expire SIX (5) MONTH'S from the making date of this communication. See a filed that the communication is communicated and the communication become MARONCED (30 U.S.C. § 133). In the communication is communicated to the communication is communicated to the communication. See a filed that there months after the making date of this communication, even if timely filed, may reduce any tent term adjustment. See 37 CF1 (174(b)).					
Status						
1)⊠ Res	sponsive to communication(s) filed on <u>04 November 2008</u> .					
2a)∐ Thi	s action is FINAL. 2b) This action is non-final.					
3)☐ Sin	ce this application is in condition for allowance except for formal matters, prosecution as to the merits is					
clos	sed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition	of Claims					
4)⊠ Cla	im(s) <u>1-8</u> is/are pending in the application.					
4a)	Of the above claim(s) is/are withdrawn from consideration.					
5) <u></u> Cla	im(s) is/are allowed.					
6)⊠ Cla	im(s) <u>1-8</u> is/are rejected.					
7)∐ Cla	im(s) is/are objected to.					
8)□ Cla	im(s) are subject to restriction and/or election requirement.					
Application	Papers					
9)∏ The	specification is objected to by the Examiner.					
	drawing(s) filed on <u>02 July 2008</u> is/are: a)⊠ accepted or b) objected to by the Examiner.					
App	olicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Rep	placement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The	oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority unde	er 35 U.S.C. § 119					
	nowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). ،ll b)∏ Some * c)∏ None of:					
	Certified copies of the priority documents have been received.					
	Certified copies of the priority documents have been received in Application No.					
_	Copies of the certified copies of the priority documents have been received in this National Stage					
_	application from the International Bureau (PCT Rule 17.2(a)).					
* See	the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)						
1) Notice of I	References Cited (PTO-892) 4) Interview Summary (PTO-413)					

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO/Sbr08)

Paper No(s)/Mail Date _____

5) Notice of Informal Patent Application. 6) Other:

Application/Control Number: 10/595,026 Page 2

Art Unit: 2617

DETAILED ACTION

This action is in response to the amendment and arguments filed on 11/4/2008.

Claims 1-8 are pending.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 and 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Luo (US Patent Publication No. 2003/0169713 A1), in view of Fascenda (US Patent Publication No. 2004/00073672 A1).

As per claims 1, 7 and 8, Luo discloses:

- A network comprising at least one access point (AP), (Luo, Abstract and Paragraph [0018], "[T]he mobile host always owns a fixed IP address as it moves from one access point to another in the WLAN, and the air traffic between the mobile host and the WLAN is encrypted.").
- one access controlling node, (Luo, Paragraphs [0019] and [0021], "MAPs 102
 are responsible for implementing access control for WLANs, and for providing mobility
 support for mobile hosts.").
- the access points making use of the Inter-Access Point Protocol (IAPP) for communication, (Luo, Paragraphs [0003] and [0019], "The intra-subnet mobility is supported using IAPP.").
- wherein at least one mobile station may associate with the access points,
 (Luo, Paragraphs [0022]-[0026], "Every access point maintains a mobile state table 118

Application/Control Number: 10/595.026

Art Unit: 2617

for the mobile hosts that are associating with it or had previously associated with it within a specified time interval.").

- wherein the identity of the mobile station can be approved by the access controlling node, (Luo, Paragraph [0047], "When a mobile host successfully associates with an MAP ... the MAP resolves the mobile host's IP address to authenticate the mobile host[.]").
- the access controlling node monitors whether a given mobile station has access to any of a given subset of access points, (Luo, Paragraphs [0021]-[0022], [0024]-[0026] and [0047]-[0048], "Every MAP needs to process four link-layer events: the association of a mobile host, the de-association of a mobile host, the arrival of an inbound frame sent to a mobile host or the MAP itself, and the arrival of an outbound frame sent from a mobile host."), Luo teaches the MAP monitoring whether or not a mobile station is associated with access points in its subnet.
- the access controlling node monitors an account relating to the given mobile station associated with a given access point of the subset of access points, (Luo, Paragraphs [0018], [0021]-[0023], [0035] and [0043]-[0044], "[T]he MAP sends ... a MOBILE STATE REQUEST message to the Web authentication server using the mobile host's MAC address as the index."), Luo teaches the mobile station submits its authentication credentials (account information) to be validated, and the MAP requests the mobile station's information to determine if the account is "normal", "limited" or "blocked".
- the at least one access-controlling node issues at least one IAPP message, (Luo, Paragraphs [0005], [0035] and [0051], "the MAP sends an IAPP announcement message to the default gateway router of the WLAN and then sends a MOBILE STATE REQUEST message to the Web authentication server using the mobile host's MAC address as the index.").

Luo teaches an access controlling node authenticating and monitoring a mobile station's account and issuing IAPP messages, but does not specifically disclose the following limitations. However, Fascenda in an analogous art discloses:

Application/Control Number: 10/595,026

Art Unit: 2617

if detecting that the account relating to the given mobile station has a balance of zero, (Fascenda, Fig. 4B-4C and Paragraphs [0015] and [0042]-[0045], "If any of the network access parameters have been met or exceeded, access to the network is denied."), Fascenda teaches checking account information to see if a usage parameter (balance) has been exhausted.

causing the access point of the subset with which the mobile station is currently associated to disassociate the given mobile station, thereby terminating access for the given mobile station, (Fascenda, Paragraphs [0045] and [0049]-[0050], "The usage application then instructs (step 540) the NIC driver to send an encrypted TCP/IP packet to the access point 220 informing it that all further TCP/IP traffic from the user must be restricted to web based HTTP requests, e.g., via port 80, and that no user packets are allowed past the access point except for HTTP requests and those will be redirected to the network billing website."), Fascenda teaches an access point receiving a message and terminating access for a mobile station.

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Fascenda into the teaching of Luo to monitor a mobile station's account and terminate access to the account when there is a zero balance. The modification would be obvious because one of ordinary skill in the art would want the benefit of making network usage tracking and enforcement simple and automatic. (Fascenda, Paragraph [0014]).

As per claim 2, Luo further discloses:

wherein the access-controlling node is an authentication server connected to the Internet, (Luo, Paragraphs [0019]-[0021], "A MAP can be a piece of stand-alone equipment deployed behind a regular WLAN access point or a group of WLAN access points, or it can be built as an enhanced WLAN access point[.]").

As per claim 3. Luo further discloses:

Application/Control Number: 10/595,026

Art Unit: 2617

wherein a second access control node is provided, the second access control node being a gateway node, (Luo, Paragraphs [0035] and [0051]-[0052], "The MAP encapsulates the frame into an IP packet with the MAP's IP address as source IP address and the care-of IP address as destination IP address. The MAP sends this IP packet to the default gateway on this subnet.").

Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Luo (US Patent Publication No. 2003/0169713 A1), in view of Fascenda (US Patent Publication No. 2004/00073672 A1), and in further view of Jeong et al (Jeong) (US Patent Publication No. 2006/0092888 A1).

As per claims 4-5, Luo teaches an access controlling node issuing IAPP messages but does not specifically disclose:

wherein the access-controlling node issues an IAPP ADD-notify message, and an IAPP MOVE-notify message, However, Jeong in an analogous art discloses the limitation. (Jeong, Paragraphs [0042]-[0043], "[U]pon receipt of a Probe Request for Proxy frame, current AP sends a Proxy Probe Request packet to neighboring APs. ... Proxy Probe Request packet has the fields filled in accordance with Table 5."), Jeong teaches a Proxy Probe Request packet containing IAPP commands such as "ADD-notify" and "MOVE-notify".

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Jeong into the network of Luo and Fascenda to issue IAPP add notify and move notify messages. The modification would be obvious because one of ordinary skill in the art would want the benefit of achieving a scanning method for wireless networks with smaller latency. (Jeong, Paragraph [0008]).

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Luo (US Patent Publication No. 2003/0169713 A1), in view of Fascenda (US Patent Publication No.

Application/Control Number: 10/595,026

Art Unit: 2617

2004/00073672 A1), and in further view of Prasad et al (Prasad) (US Patent No. 7,197,125 B1).

As per claim 6, Luo teaches an access controlling node issuing IAPP messages to a gateway router but does not specifically disclose:

wherein the access-controlling node issues a Lock out request to the gateway node, However, Prasad in an analogous art discloses the limitation. (Prasad, Column 10, Lines 44-58, "The authentication server performs the authentication and returns either an ACCESS ACCEPT (if authentication succeeds) or an ACCESS REJECT (if the authentication fails). If the authentication fails then the service selection gateway sends an appropriate error message to the client and the processing stops."), Prasad teaches the authentication server sending a lock out (reject) message to the gateway node.

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Prasad into the network of Luo and Fascenda to issue a lock out request to the gateway node. The modification would be obvious because one of ordinary skill in the art would want to prevent unauthorized users from gaining access to the network. (Prasad, Abstract).

Conclusion

The prior art not relied upon but considered pertinent to applicant's disclosure is made of record and listed on form PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TANGELA T. CHAMBERS whose telephone number is 571-270-3168. The examiner can normally be reached Monday through Thursday, 9:00am-6:30pm Eastern Time.

Art Unit: 2617

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nick Corsaro, can be reached at 571-272-7876. The fax phone number for the organization where this application or proceeding is assigned is 571-270-4168.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tangela T. Chambers/ Patent Examiner, Art Unit 2617 May 18, 2009

/NICK CORSARO/ Supervisory Patent Examiner, Art Unit 2617